CCTGTGGGAGAGCGCCGGGATCCGGACGGGGTAGCAACCGGGGCAGGCCGTGCCGGCTGA 62 GGAGGTCCTGAGGCTACAGAGCTGCCGCGGCTGGCACACGAGCGCCCTCGGCACTAACCGA 122 GTGTTCGCGGGGCTGTGAGGGGAGGGCCCCGGGCGCCATTGCTGGCGGTGGGAGCGCCG CCCGGTCTCAGCCCGCCCTCGGCTGCTCCTCCTCCGGCTGGGAGGGGCCGTATCTCGG 242 GGCCGTCGCCAGCCCCGGCCCGGGCTCGATAATCAAGGGCCTCGGCCGTCGTCCCGCACC 302 TCATTCCATCGCCCTTGCCGGGCAGCCCGGGCAGAGACC ATG TTT GAC AAG ACG 356 Met Phe Asp Lys Thr CGG CTG CCG TAC GTG GCC CTC GAT GTG CTC TGC GTG TTG CTG GCT 401 Arg Leu Pro Tyr Val Ala Leu Asp Val Leu Cys Val Leu Leu Ala 10 1.5 GGA TTG CCT TTT GCA ATT CTT ACT TCA AGG CAT ACC CCC TTC CAA Gly Leu Pro Phe Ala Ile Leu Thr Ser Arg His Thr Pro Phe Gln 25 -30 CGA GGA GTA TTC TGT AAT GAT GAG TCC ATC AAG TAC CCT TAC AAA 491 Arg Gly Val Phe Cys Asn Asp Glu Ser Ile Lys Tyr Pro Tyr Lys 50 40 45 GAA GAC ACC ATA CCT TAT GCG TTA TTA GGT GGA ATA ATC ATT CCA 536 Glu Asp Thr Ile Pro Tyr Ala Leu Leu Gly Gly Ile Ile Pro 55 60 TTC AGT ATT ATC GTT ATT ATT CTT GGA GAA ACC CTG TCT GTT TAC 581 Phe Ser Ile Ile Val Ile Ile Leu Gly Glu Thr Leu Ser Val Tyr 70 75 TGT AAC CTT TTG CAC TCA AAT TCC TTT ATC AGG AAT AAC TAC ATA 626 Cys Asn Leu Leu His Ser Asn Ser Phe Ile Arg Asn Asn Tyr Ile 85 90 GCC ACT ATT TAC AAA GCC ATT GGA ACC TTT TTA TTT GGT GCA GCT 671 Ala Thr Ile Tyr Lys Ala Ile Gly Thr Phe Leu Phe Gly Ala Ala 100 105 GCT AGT CAG TCC CTG ACT GAC ATT GCC AAG TAT TCA ATA GGC AGA 716 Ala Ser Gln Ser Leu Thr Asp Ile Ala Lys Tyr Ser Ile Gly Arg 125 115 120 CTG CGG CCT CAC TTC TTG GAT GTT TGT GAT CCA GAT TGG TCA AAA 761 Leu Arg Pro His Phe Leu Asp Val Cys Asp Pro Asp Trp Ser Lys 130 ATC AAC TGC AGC GAT GGT TAC ATT GAA TAC TAC ATA TGT CGA GGG 806 Ile Asn Cys Ser Asp Gly Tyr Ile Glu Tyr Tyr Ile Cys Arg Gly 145 150 AAT GCA GAA AGA GTT AAG GAA GGC AGG TTG TCC TTC TAT TCA GGC 851 Asn Ala Glu Arg Val Lys Glu Gly Arg Leu Ser Phe Tyr Ser Gly 160 165 170 CAC TCT TCG TTT TCC ATG TAC TGC ATG CTG TTT GTG GCA CTT TAT 896 His Ser Ser Phe Ser Met Tyr Cys Met Leu Phe Val Ala Leu Tyr 175 180 185 CTT CAA GCC AGG ATG AAG GGA GAC TGG GCA AGA CTC TTA CGC CCC 941 Leu Gln Ala Arg Met Lys Gly Asp Trp Ala Arg Leu Leu Arg Pro 190 195 ACA CTG CAA TTT GGT CTT GTT GCC GTA TCC ATT TAT GTG GGC CTT 986 Thr Leu Gln Phe Gly Leu Val Ala Val Ser Ile Tyr Val Gly Leu 205 210 TCT CGA GTT TCT GAT TAT AAA CAC CAC TGG AGC GAT GTG TTG ACT 1031 Ser Arg Val Ser Asp Tyr Lys His His Trp Ser Asp Val Leu Thr 220 225 230 GGA CTC ATT CAG GGA GCT CTG GTT GCA ATA TTA GTT GCT GTA TAT 1076 Gly Leu Ile Gln Gly Ala Leu Val Ala Ile Leu Val Ala Val Tyr 235 240 245 GTA TCG GAT TTC TTC AAA GAA AGA ACT TCT TTT AAA GAA AGA AAA 1121 Val Ser Asp Phe Phe Lys Glu Arg Thr Ser Phe Lys Glu Arg Lys 250

Figure 1. Translated sequence of human PAP- α 1 cDNA.

							CTG								1166
Glu	Glu	Asp	Ser		Thr	Thr	Leu	His		Thr	Pro	Thr	Thr	Gly 275	
				265					270					•	
				-						AAG	GCA	GCAG(GTG	CCCAG	1215
Asn	His	Tyr	Pro	Ser	Asn	His	Gln	Pro	* * *						
				280											
GTG	AAGCI	rggc	CTGT	TTC	CAAAC	GAAA	AATGA	ATTGO	CCAC	AAGG	CAAGA	AGGA:	rgca:	CTTT	1275
CTT	CTG	STGT	ACAA	GCCT1	TAAT	AGACT	TCTC	CTG	CTGA:	ratgo	CCTCT	TGG	ATGC	ACACT	1335
TTG	CGTGT	raca:	ragt:	racci	TTA	ACTC	AGTGO	STTAT	CTA	ATAGO	CTCTA	AAAC'	rcat:	AAAA	1395
AAA	CTCC	AAGC	CTTC	CACC	AAAA	CAGTO	GCCC	CACCI	rgta:	raca?	CTTTI	CATTA	LAAA	AAATG	1455
TAA	rgcT1	ratg:	CATA	AACA	rgTA1	GTA	TATA	CTT	CTA:	rgaa:	rgat(STTTC	GATT'	TAAAT	1515
ATA	ATACA	TAT	TAAA	ATGTA	ATGG	SAGA	ACCA	AAAA	LAAA	LAAA	LAAA	A.			1563

Figure 2. Translated sequence of human PAP- $\alpha 2$ cDNA

CCTGTGGGAGAGCGCCGGGATCCGGACGGGGTAGCAACCGGGGCAGGCCGTGCCGGCTGA GGAGGTCCTGAGGCTACAGAGCTGCCGCGGCTGCACACGAGCGCCTCGGCACTAACCGA GTGTTCGCGGGGGGCTGTGAGGGGAGGG															
														CACC	302
TCAT	TCCF	ATCGC	CCTI	'GCCG	GGCF	AGCCC	CGGGC	CAGAC							356
										Met	Phe	Asp	Lys	${ t Thr}$	
														5	
CCC	CTC	CCC	ጥአር	CTC	CCC	CTC	GAT	CTC	CTC	TGC	GTG	ттс	CTG	CCT	401
-	CIG	CCG	TAC	GIG	3.3	CIC	CAI	919	T	7.50	77-1	T	T	71-	401
Arg	Leu	Pro	Tyr	vaı	Ата	ьeu	Asp	٧aı		cys	vaı	Leu	ьeu		
				10					15					20	
TCC	ATG	CCT	ATG	GCT	GTT	CTA	AAA	TTG	GGC	CAA	ATA	TAT	CCA	TTT	446
							Lys								
UCI	1100	110	1100	25		204	_,_		30	5		- 1 -		35	
							~~~			T		m a m	~~~		401
							GAC								491
Gln	Arg	Gly	Phe	Phe	Cys	Lys	Asp	Asn	Ser	Ile	Asn	Tyr	Pro	Tyr	
	=	_		40					45					50	
ርልጥ	GAC	ΔСТ	ACC	GEE	CGA.	ጥሮር	ACT	GTC	CTC	ATC	CTA	GTG	GGG	GTT	536
CAI	DAC.	201	mb/	71-	/21-	)	Thr	17-1	Tan	Tlo	Tan	Val	C1	Val	000
HlS	Asp	Ser	Thry	ALA	(Ala	/Ser	Inr	vaı		тте	ьeu	Val	GTA	vai	
				55					60					65	
GGC	TTG	CCC	GTT	TCC	TCT	ATT	ATT	CTT	GGA	GAA	ACC	CTG	TCT	GTT	581
							Ile								
1				70					75					80	
		770	amm.		~~~	max.	70.70.070	maa		n m c	v.c.m	ת ת ת	ח ח ה		626
TAC	TGT	AAC	CTT	TTG	CAC	TÇA	AAT	TCC	111	AIC	AGI	AAI	AAC	IAC	020
Tyr Cys Asn Leu Leu His Ser Asn Ser Phe Ile Ser Asn Asn Tyr															
				85					90					95	
AΥA	GCC	ACT	АТТ	TAC	AAA	GCC	ATT	GGA	ACC	TTT	TTA	TTT	GGT	GCA	671
т10	712	Th.~	T10	Tur	Tuc	7.1.5	Ile	Glv	Thr	Phe	Τ.Δ.11	Phe	Glv	Δla	
тте	Ала	1111	TIE		ту	та	116	GLY		LIIC	пеп	1110	Ory		
				100					105					110	24.6
GCT	GCT	AGT	CAG	TCC	CTG	ACT	GAC	ATT	GCC	AAG	TAT	TCA	ATA	GGC	716
Ala	Ala	Ser	Gln	Ser	Leu	Thr	Asp	Ile	Ala	Lys	Tyr	Ser	Ile	Gly	
				115			_		120	-	-			125	
$\Lambda \subset \Lambda$	CTC	CCC	CCT		ጥጥር	ጥጥር	GAT	СТТ		CAT	CCA	GAT	TGG	TCA .	761
															, 01
Arg	ьeu	Arg	Pro		Pne	Leu	Asp	vaı		Asp	PIO	ASP	тp	ser	
				130					135					140	
AAA	ATC	AAC	TGC	AGC	GAT	GGT	TAC	ATT	GAA	TAC	TAC	ATA	TGT	CGA	806
							Tyr								
_,_			-1-	145	E	1	- 1 -		150	2	-			15Š	
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															031
GLy	Asn	Ala	Glu	Arg	Val	гàг	Glu	GTA		ьeu	Ser	Pne	Tyr		
				160					165					170	
GGC	CAC	TCT	TCG	TTT	TCC	ATG	TAC	TGC	ATG	CTG	TTT	GTG	GCA	CTT	896
Glv	His	Ser	Ser	Phe	Ser	Met	Tyr	Cvs	Met	Leu	Phe	Val	Ala	Leu	
O T y				175			- 1 -	010	180					185	
		~~~	~~~		7 m c	7.7.0	CCB	CAC		CCA	707	CmC	mm a		941
							GGA								941
Tyr	Leu	Gln	Ala	Arg	Met	Lys	Gly	Asp	Trp	Ala	Arg	Leu	Leu	Arg	
				190					195					200	
CCC	ACA	CTG	CAA	TTT	GGT	CTT	GTT	GCC	GTA	TCC	ATT	TAT	GTG	GGC	986
							Val								
FIO	1111	пеп	GIII		Gry	пец	Val	/ _ u		DCL	110	- y -	• • •		
				205					210					215	
							AAA								1031
Leu	Ser	Arg	Val	Ser	Asp	Tyr	Lys	His	His	Trp	Ser	Asp	Val	Leu	
		-		220	-	-	-		225	-		_		230	
7.00	CCA	CTC	<b>አ</b> ጥጥ		CCA	CCT	CTG	CTTT		Δmγ	ጥጥክ	СТТ	CCT		1076
															10,0
Thr	GTA	Leu	тте		GTA	ΑΙΑ	Leu	val		тте	ьeu	vaı	АТА		
				235					240					245	
TAT	GTA	TCG	GAT	TTC	TTC	AAA	GAA	AGA	ACT	TCT	TTT	AAA	GAA	AGA	1121
							Glu								
- y	·uı	~~*	٦.٥٢	250		_,,		9	- • • •			_, _		260	
				230										200	

										GAA					1166
Lys	Glu	Glu	Asp	Ser	His	Thr	Thr	Leu	His	Glu	Thr	Pro	Thr		
				265					270					275	
											AAG	GCAG	CAGG	STGCC	1215
Gly	Asn	His	Tyr	Pro	Ser	Asn	His	Gln	Pro	* * *					
				280					285						
														GCATC	
TTT	CTTC	CTGG	rgta(	CAAG	CCTT	CAAA1	SACT	CTG	CTGC	rgat <i>i</i>	ATGC	CTCT	rgga:	rgcac	
ACT:	TGT	STGT	ACATA	AGTT	ACCT	PAAT	CTCA	GTGGT	TAT	CTAA:	rage:	CTA	AACT	CATTA	
														AAAA	
ATG:	TAAT	GCTT	ATGT	ATAA	ACAT	GTAT	GTAA!	ratgo	CTTTC	CTATO	SAAT	GATG'	TTTG	ATTTA	
AAT	ATAA'	raca'	TATTA	'AAAA	rgta:	rggg/	AGAA	CCAA	AAAA	<b>LAAA</b>	<b>LAAA</b>	AAA			1566

Figure 3. Translated sequence of PAP- $\beta$  cDNA

GGCGCAGCTCTGCAAAAGTTTCTGCTCGGGATCTGGCTCTCTTCCCCTTGGACTTTAGAACG 62															
ATTI	AGGG	STTGP	CAG	AGGAA	AAGC	AGAGG	CGCC	CAGO	SAGGA	AGCAG	AAA	ACACO	CACCI	TCTG	122
CAGI	TGGF	AGGCA	AGGC	AGCCC	CCGGC	CTGCF	ACTCI	AGCC	CGCCC	CGCC	CCGGF	AGCCG	GGGG	CCGAC	182
CCGC	CACT	CATCO	GCAC	CAGO	CTC	GCCF	AGGAG	GCG	ACCCG	GGCC	CCTC	GGTC	STGT	GGCTG	242
		GGAC													299
0.0.			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									Gln	
አአC	ጥአሮ	AAG	ጥልር	CAC	מממ	GCG	ΔTC	CTC	CCG	GAG	AGC	ΔAG			344
		Lys													244
ASII	ı yı	гĀЗ	TYL	Asp	гуѕ	ALA		val	PIO	GIU	ser		ASII	GTA	
		5		C.T.C			10	000	T 00	7.00	700	15	B C C	n n c	200
		CCG													389
Gly	Ser	Pro	Ala	Leu	Asn	Asn		Pro	Arg	Arg	Ser		Ser	Lys	
		20					25					30			
CGG	GTG	CTG	CTC	ATC	TGC	CTC	GAC	CTC	TTC	TGC	CTC	TTC	ATG	GCG	434
Arg	Val	Leu	Leu	Ile	Cys	Leu	Asp	Leu	Phe	Cys	Leu	Phe	Met	Ala	
_		35			_		40			_		45			
GGC	CTC	CCC	TTC	CTC	ATC	ATC	GAG	ACA	AGC	ACC	ATC -	AAG	CCT	TAC	479
		Pro													
047	200	50	20				55					60		- 1 -	
CAC	CGA	GGG	ጥጥጥ	TAC	TGC	ΔΔΤ		GAG	AGC	ΔΤС	AAG		CCA	CTG	524
		Gly													J2 :
UIS	ALG	65	FIIC	ı yı	СуЗ	A311	70	GIU	Der	110	БУЗ	75	110	пец	
70 70 70	7 CM		CTC	7.07	7. III 7.	7 7 177		CCT	CTIC	CTTC	mcm.		CTTC	CCC	E 6 0
		GGT													569
Lys	Thr	Gly	Glu	Thr	ile	Asn	_	Ala	Val	Leu	Cys		Val	GLY	
		80					85					90			
ATC	GTC	ATT	GCC	ATC	CTC	GCG	ATC	ATC	ACG	GGG	GAA	TTC	TAC	CGG	614
Ile	Val	Ile	Ala	Ile	Leu	Ala	Ile	Ile	Thr	Gly	Glu	Phe	Tyr	Arg	
		95					100					105			
ATC	TAT	TAC	CTG	AAG	AAG	TCG	CGG	TCG	ACG	ATT	CAG	AAC	CCC	TAC	659
		Tyr													
	- 1 -	110		2,70			115					120		- 1 -	
CTC	CCA	GCA	CTC	тдт	AAG	$C\Delta\Delta$	-	GGC	TGC	ጥጥር	CTC		GGC	тст	704
		Ala													, 0 1
vaı	на	125	пец	ıyı	цуз	GIII	130	OTY	Cys	LIIC	пси	135	Gry	СуЗ	
~~~	n mc	AGC	CAC	TOT	mmc	7 (7		v mm	CCC	71 71 71	CTC		מיחי מ	CCC	749
															143
Ата	тте	Ser	GIN	ser	Pne	Thr		тте	Ата	гуѕ	Val		тте	GLY	
		140					135					150			704
		CGT													794
Arg	Leu	Arg	Pro	His	Phe	Leu	Ser	Val	Cys	Asn	Pro		Phe	Ser	
		155					160					165			
CAG	ATC	AAC	TGC	TCT	GAA	GGC	TAC	ATT	CAG	AAC	TAC	AGA	TGC	AGA	839
Gln	Ile	Asn	Cys	Ser	Glu	Gly	Tyr	Ile	Gln	Asn	Tyr	Arg	Cys	Arg	
		170	_			_	-					180			
GGT	GAT	GAC	AGC	AAA	GTC	CAG	GAA	GCC	AGG	AAG	TCC	TTC	TTC	TCT	884
		Asp													
0-1	- 10 [-	185		-1-			190		5	-2-		195			
GGC	СДТ	GCC	TCC	ጥጥር	TCC	ATG		ACT	ATG	CTG	TAT		GTG	CTA	929
		Ala													323
Gry	1113		Jei	LIIC	Jer	riec	205	1111	ricc	пец	ı yı	210	val	пси	
m = 0	ama.	200	~~~	000	mma	7.00		CCN	CCA	ccc	ccc		CTIC	ccc	074
		CAG													974
Tyr	Leu	Gln	Ата	Arg	Phe	Thr	_	Arg	GLY	Ата	Arg		Leu	Arg	
		215					220					225			
CCC	CTC	CTG	CAG	TTC	ACC	TTG	ATC	ATG	ATG	GCC	TTC	TAC	ACG	GGA	1019
Pro	Leu	Leu	Gln	Phe	Thr	Leu	Ile	Met	Met	Ala	Phe	Tyr	Thr	Gly	
		230					235					240			
CTG	TCT	CGC	GTA	TCA	GAC	CAC	AAG	CAC	CAT	CCC	AGT	GAT	GTT	CTG	1064
		Arg													
		245	_		<u>.</u> .		250					255			
GCA	GGA	TTT	GCT	CAA	GGA	GCC		GTG	GCC	TGC	TGC		GTT	TTC	1109
		Phe													
	~-1				1					- 1 -	- 1 -				

		260					265					270			
TTC	GTG	TCT	GAC	CTC	TTC	AAG	ACT	AAG	ACG	ACG	CTC	TCC	CTG	CCT	1154
Phe	Val	Ser	Asp	Leu	Phe	Lys	Thr	Lys	Thr	Thr	Leu	Ser	Leu	Pro	
		275				_	280					285			
GCC	CCT	GCT	ATC	CGG	AAG	GAA	ATC	CTT	TCA	CCT	GTG	GAC	ATT	ATT	1199
Ala	Pro	Ala	Ile	Arg	Lys	Glu	Ile	Leu	Ser	Pro	Val	Asp	Ile	Ile	
		290					295					300			
GAC	AGG	AAC	AAT	CAC	CAC	AAC	ATG	ATG	TAG	GTG	CCAC	CCAC	CTCCI	rgagc	1249
Asp	Arg	Asn	Asn	His	His	Asn/	Met	Met	***						
		305					310								
TGT	TTTT	STAA	AATG	ACTG	CTGA	CAGC	AAGT	CTT	GCTG	CTCT	CCAA	CTC	ATCAC	GACAG	1309
TAGE	ATG	raggo	SAAA	ACT	rrrg	CCCGA	ACTGA	ነጥጥጥ	TAAT	AAAA	AAAA	AAAA	AA		1362

Figure 4. Translated sequence of human PAP-y cDNA														
ACC ATG Met	CAG Gln													47
TTA CTG Leu Leu 15									CTG					92
GCC CCG Ala Pro 30				GGA					GAT					137
TAC CCC Tyr Pro				GAT					GGG					182
GTC ACC				ACC Thr					TCG					227
60 TAC CTG Tyr Leu				Asp					CGC Arg					272
75 AAC TAC Asn Tyr				Val					Gly					317
90 GGG GCT Gly Ala				Gln					Leu					362
105 ATT GGG Ile Gly									Val					407
120 TGG AGC Trp Ser														452
135 TGC AGG Cys Arg														497
150 TAC TCG Tyr Ser														542
165 GCG CTG Ala Leu														587
180 CTG CGA Leu Arg														632
195 GTG GGC Val Gly														677
210 GTC CTT Val Leu	GTT	GGC	CTC	215 CTG	CAG	GGG	GCA	CTG	220 GTG	GCT	GCC	CTC	ACT	722
225 GTC TGC Val Cys	TAC	ATC	TCA	230 GAC	TTC	TTC	AAA	GCC	235 CGA	CCC	CCA	CAG	CAC	767
240 TGT CTG	- AAG	GAG	GAG	245 GAG	CTG	GAA	CGG	AAG	250 CCC	AGC	CTG	TCA	CTG	812
Cys Leu 255 ACG TTG	ACC	CTG	GGG	260 CGA	GGC	TGA			265					864
Thr Leu 270 CTTCTTC			_	275	_		GGGA	GCTG	CTGT	GAGT	CCAG	CTGA	TGCCC	924
ACCCAGG	TGGT	CCCT	CCAG	CCTG	GTTA	GGCA	CTGA	GGGT	TCTG	GACG	GGCT	CCAG	GAACC	984

CTGGGCTGATGGGAGCAGTGAGCGGTTCCGCTGCCCCTGCCCTGCACTGGACCAGGAGT	1044
CTGGAGATGCCTGGGTAGCCCTCAGCATTTGGAGGGGAACCTGTTCCCGTCGGTCCCCAA	1104
ATATCCCCTTCTTTTTATGGGGTTAAGGAAGGGACCGAGAGATCAGATAGTTGCTGTTTT	1164
GTAAAATGTAATGTATATGTGGTTTTTAGTAAAATAGGGCACCTGTTTCACAAAAAAAA	1224
AAAAAAAAA	1234

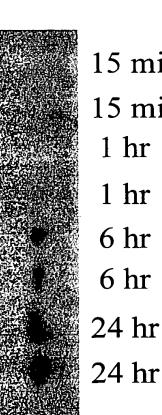
Figure 5. Amino acid sequences alignment of murine PAP with the three human isoforms of PAP.

		10	20	30	40	50
M_PAP.AMI	1	§				L.
PAP_A1.AMI PAP_A2.AMI	1	M				M
PAP B.AMI	1	MONYKYD AI	VPESKNGGSP	ALNNNPRRSG	SK VLLIC	LF FM
PAP_G.AMI	1	<u></u>			-RWVFVL	$\nabla x \cdot x \cdot \nabla x \cdot \nabla x \cdot x$
W DDD DWT	51	60	70	80	90	100
M_PAP.AMI PAP A1.AMI	51		Encorate V	数分数 24.000 —		I says
PAP A2.AMI	51	M. V. KLGOLY	Archie K	N N HDS	- AAST IL	VGLP SS
PAP_B.AMI	51	LUIEBATIK	H Relye	Blance LITG	E ND CA	VIA LA
PAP_G.AMI	51	LVNA 110	120	RP- 130	THG MA	TAT LV 150
M PAP.AMI	101	PIOSINGE	V V	G 130	A VS	130
PAP_A1.AMI	101	the man the hope ye				
PAP_A2.AMI		10 Classific 2017-11	Springer - r			3 (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
PAP_B.AMI PAP G.AMI	101	TE FYRINY SACRAYLINT	CKKSRST	O L	OMCC2LICC!	T STATE OF THE STA
FAF_G.AMI	101	160	170	180	190	200
M_PAP.AMI	151	igas <mark>S</mark> ersio	I gottowen	Pression of the	District Office in the	第一种有些不足 。(
PAP_A1.AMI	151		The second	#11 - A - A - A	A POLICE A R	Figure 1 and 1 April 1985
PAP_A2.AMI PAP_B.AMI	151 151	Visite and a	G		N R CODDS	ត្រ ស្រ
PAP G.AMI	151	M KN	P. R.	V -V V L	EKV RENPAD	T
_		210	220	230	240	250
M_PAP.AMI	201 201	ē ielstradyskeik	\$100 7. 2167.57		™	
PAP_A1.AMI PAP_A2.AMI	201	Contraction of the second section of	in Develop	i e vicke e e		
PAP B.AMI	201		Y V Accors	FT RGREET	L <0 T : MM	FT
PAP_G.AMI	201		VELON VIDA	LC K	VD FR	LYKYT
M PAP.AMI	251	260	270	280	290 DTHEY COR	300
PAP Al.AMI	251	in access of the van	en se en	V	SOURCE F COM	
PAP_A2.AMI	251	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Megical Section 1/3	Time V American	PORTUGE FROM	Bourdeloging A.
PAP_B.AMI	251		A FA	CCIFFEEL	TKETLSLP	APAIRKEIS
PAP_G.AMI	251	D) (0:11W/2DXI) 310	Ver Lechber 320	330	A PPQHCL 340	₹₹₽ E−−− ₽ E 350
M PAP.AMI	301		TWEE *			
PAP_A1.AMI	301		*			
PAP_A2.AMI	301	PVDIIDRNNH	The state of the s			• • • • • • • • •
PAP_B.AMI PAP G.AMI		RKPS LSLTLT				

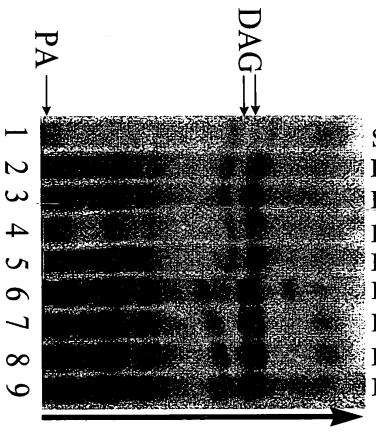








15 min 15 min 1 hr 1 hr 6 hr 6 hr 24 hr



Substrate EB293 EB293 EB293 + vector EB293 + vector EB293 + PAPa1 EB293 + PAPa1 EB293 + PAPa2 EB293 + PAPa2 PAPα →

Tumor
Normal

Fsophagus

Tumor
Normal

Stomach $C_{OI_{OII}}$ Tumor Normal Normal Rectum $B_{r_{e_{a_{s_t}}}}$ Tumor Normal Uterus Normal
Tumor
Normal
Tumor
Normal
Tumor
Ovary Tumor

Fig. 8 Northern Analysis of PAP-α mRNA expression in tumor vs normal tissues





FIGURE 9